

## ABSTRACT OF THE DISCLOSURE

A media processing apparatus is made up of an I/O processing unit for performing input/output processing which asynchronously occurs due to an external factor and a decode processing unit for performing decode processing mainly for decoding of data streams stored in a memory in parallel with the input/output processing. The input/output processing includes receiving the data streams which are asynchronously inputted, storing the inputted data streams in the memory, and supplying the data streams from the memory to the decode processing unit. The decode processing unit is made up of a sequential processing unit mainly performing condition judgements on the data streams and a routine processing unit performing decode processing on compressed video data aside from header analysis of the compressed video data in parallel with the sequential processing. Accordingly, the input/output processing means and the decode processing means are respectively charged with the asynchronous processing and the decode processing, and the input/output processing means and the decode processing means operate in parallel as in pipeline processing. As a result, the decode processing means can be devoted to the decode processing, regardless of asynchronous processing. Accordingly, processes including input processing of stream data, decode processing of the inputted data, and output processing of decoded data are executed efficiently.